

Title (en)
INDOOR FAN FILTER

Title (de)
RAUMLÜFTERFILTER

Title (fr)
FILTRE POUR VENTILATEUR D'INTERIEUR

Publication
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Application
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Abstract (en)
[origin: WO0205929A1] One or two filters in brackets are integrated with a square or circular fan. Filters (12) and associated brackets (16, 36) are provided both in the front and in the rear of the fan in one embodiment. In another embodiment, a single filter (12) in a bracket (16) is provided at the rear of the fan. The filter(s) can be pre-pleated and pre-activated carbon filter(s). The fan housing can include a pocket (38) for adding an odorizing and/or deodorizing agent. A plurality of stick-on right-angled brackets (56) having the capacity of adjustable clearance to snugly hold the filters is another embodiment.

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Citation (search report)
• [XA] US 4781526 A 19881101 - MEAD CLARENCE [US]
• [X] US 4560395 A 19851224 - DAVIS GEORGE B [US]
• [X] US 3802168 A 19740409 - DECKAS P
• [X] US 5433772 A 19950718 - SIKORA DAVID [US]
• [X] US 5660605 A 19970826 - CHAN THOMAS [US], et al
• [X] EP 0684152 A1 19951129 - HONDA MOTOR CO LTD [JP]
• [X] US 5679121 A 19971021 - KIM DO-YEON [KR]
• [A] US 4102656 A 19780725 - KORITZ BJORN R
• [A] US 5762665 A 19980609 - ABRAHAMIAN NICHAN A [US], et al
• [A] US 4900344 A 19900213 - LANSING JAMES P [US]
• [A] US 4749390 A 19880607 - BURNETT GILBERT W [US], et al
• [A] US 5562407 A 19961008 - CIELO KEVIN K [US]
• [A] US 3422263 A 19690114 - ASAHINA JIRO
• [A] US 5803940 A 19980908 - RICK BRADLEY G [US], et al
• [A] US 5888261 A 19990330 - FORTUNE WILLIAM S [US]
• [A] EP 0838639 A1 19980429 - UEHARA KIYOMASA [JP]
• [A] US 5904744 A 19990518 - KAGAN ANTON [US]
• [A] US 5525145 A 19960611 - HODGE JOSEPH [US]
• [X] US 2532162 A 19501128 - GOSS JAMES W
• [X] US 2696962 A 19541214 - GOSS JAMES W
• [X] US 2306023 A 19421222 - LUMLEY MAURICE C
• [A] US 1024349 A 19120423 - MATTERN AUGUST [US]
• See references of WO 0205929A1

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